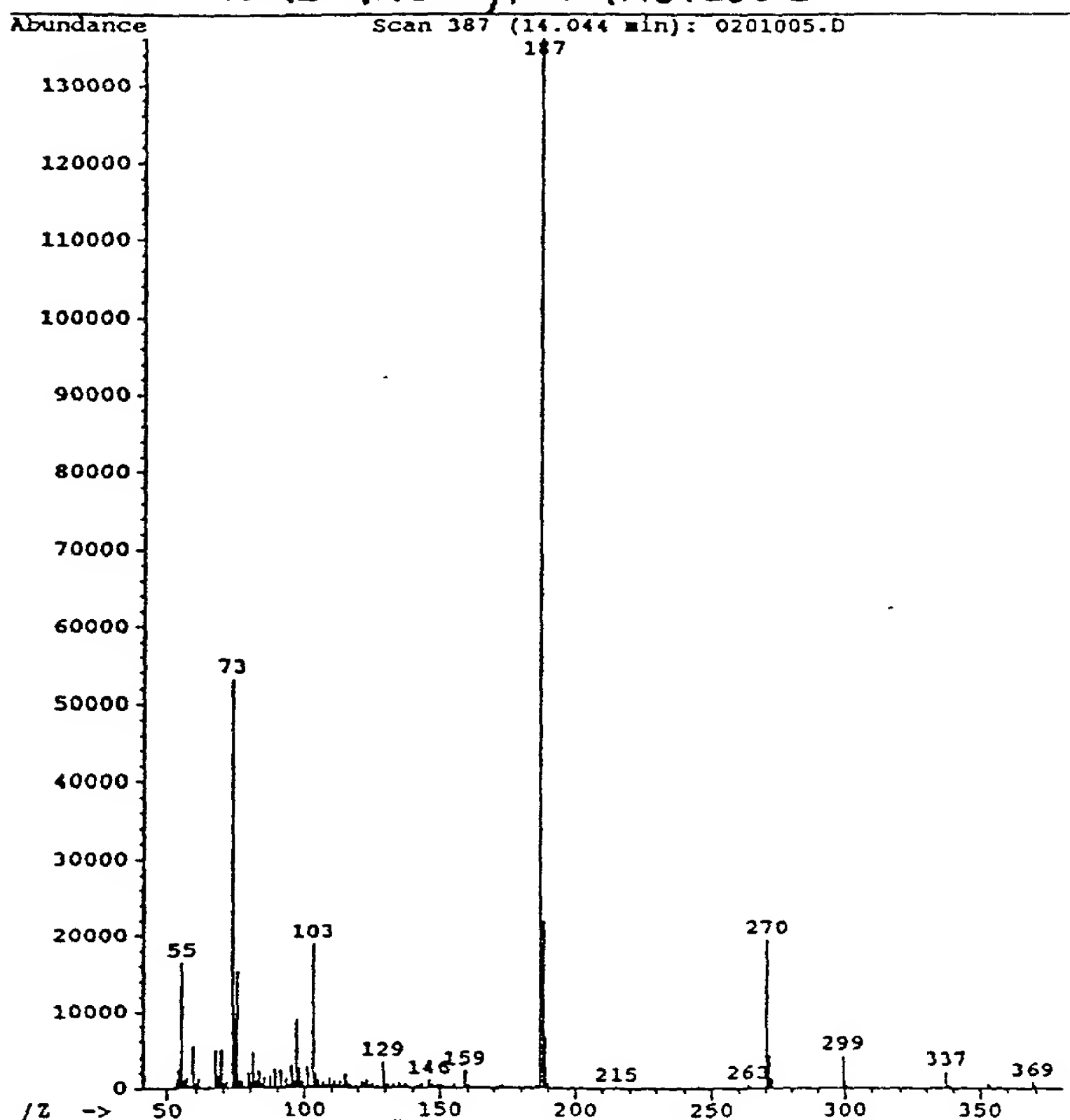


Figure

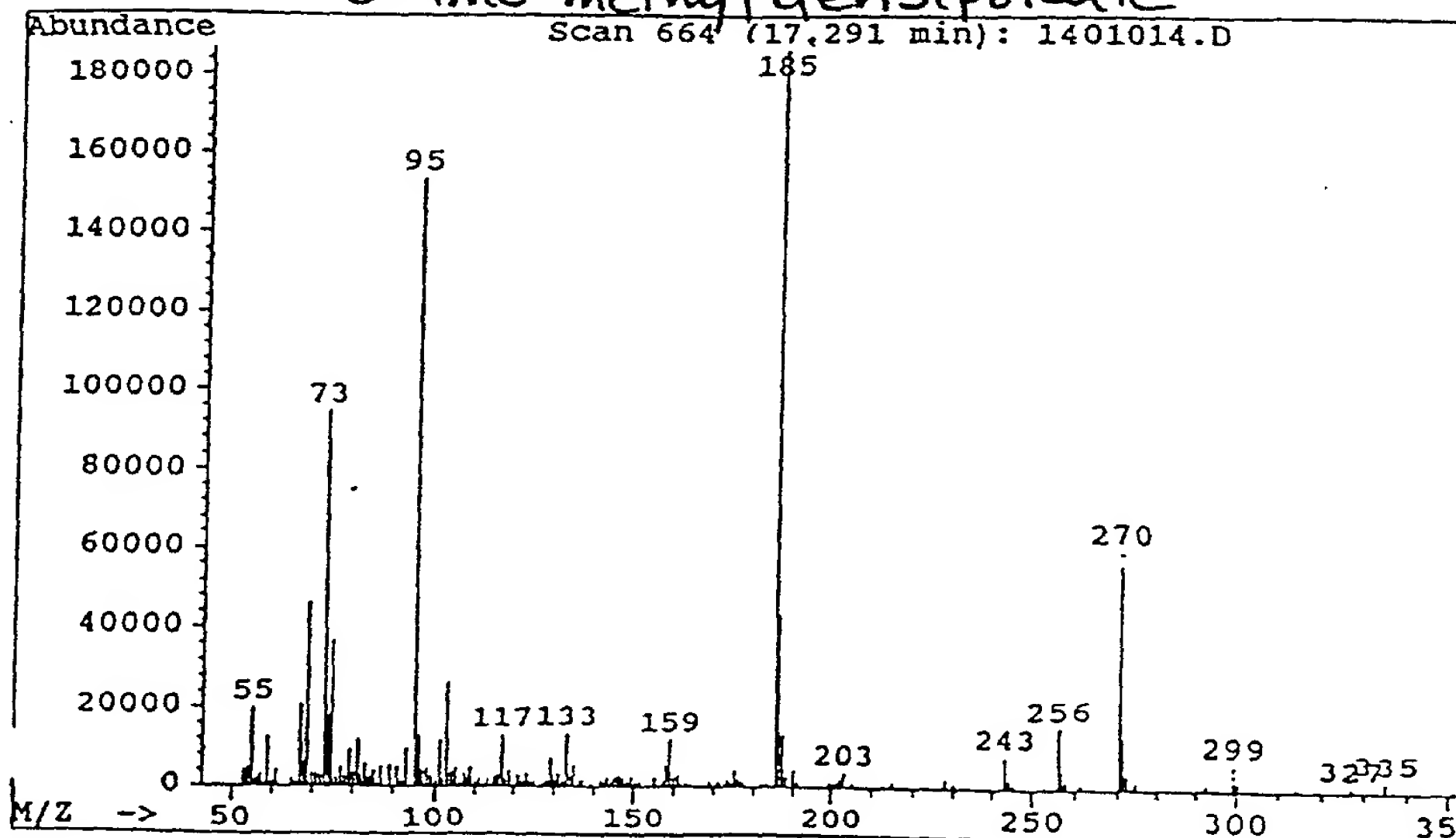
1A

O-TMS-methylricinoleate

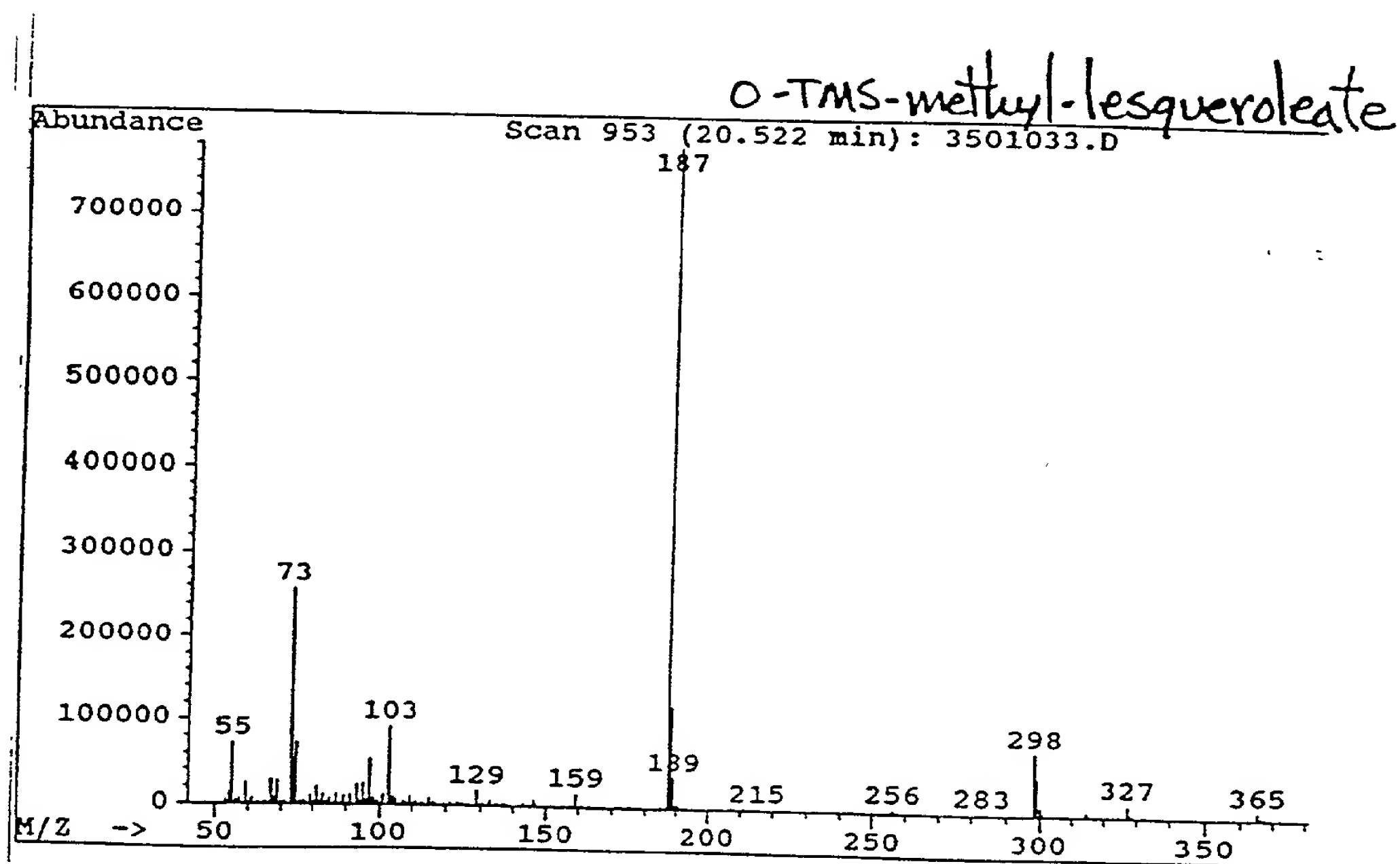


1B

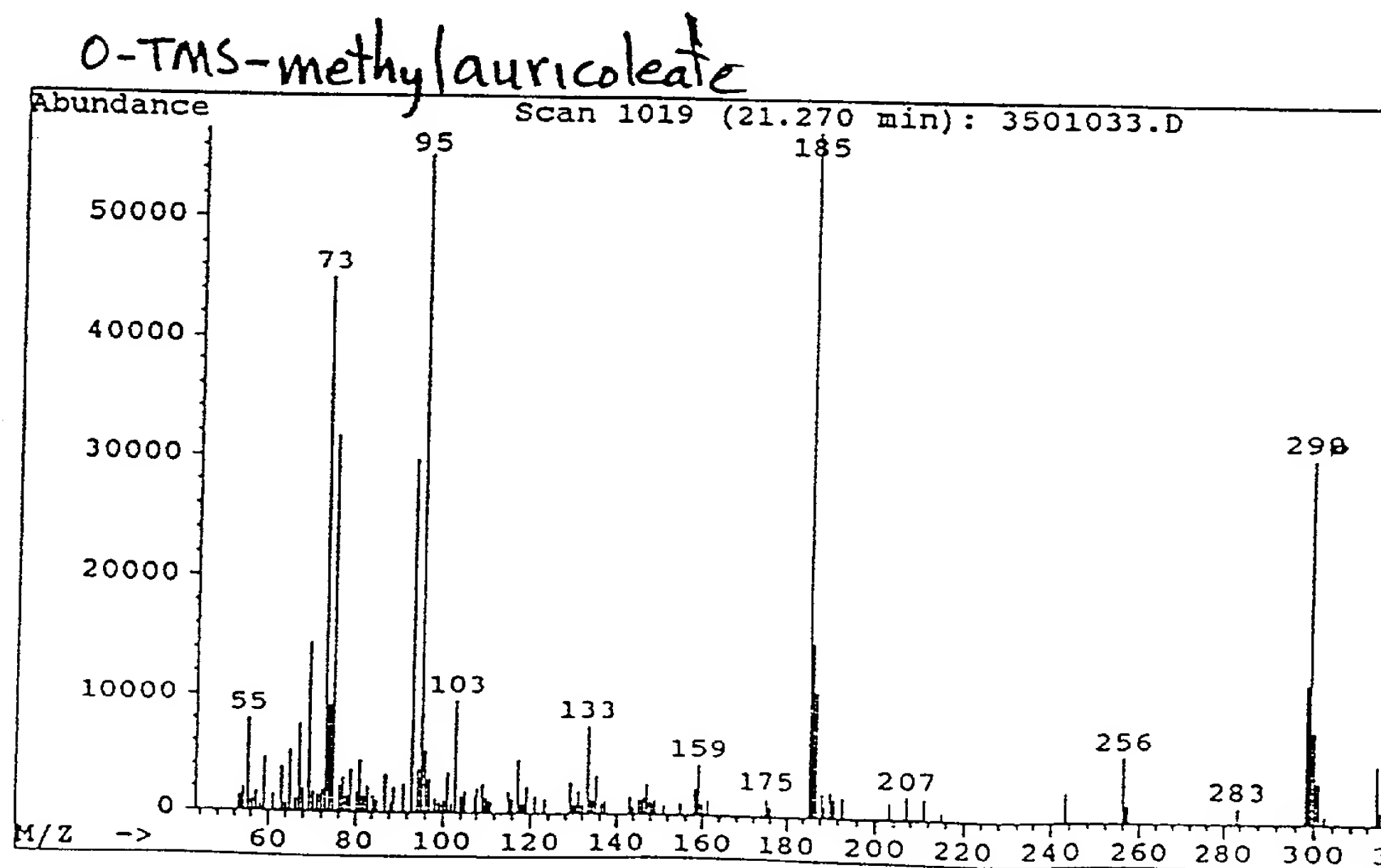
O-TMS-methyl densipoleate



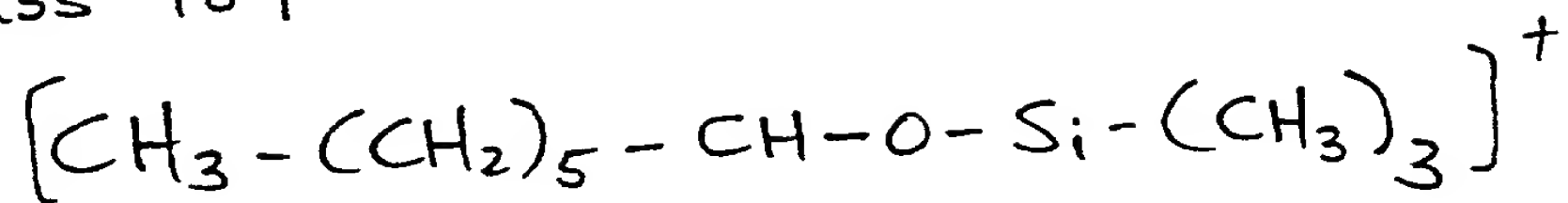
1C



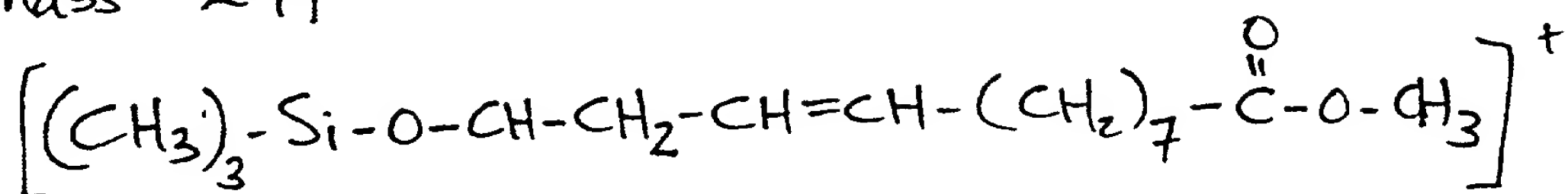
1D



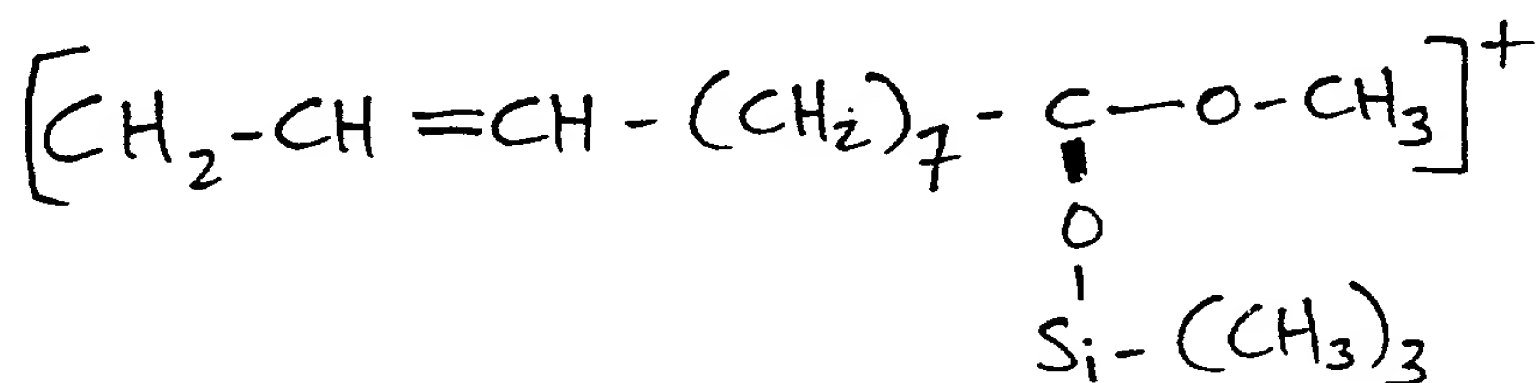
Ion #1: Mass 187



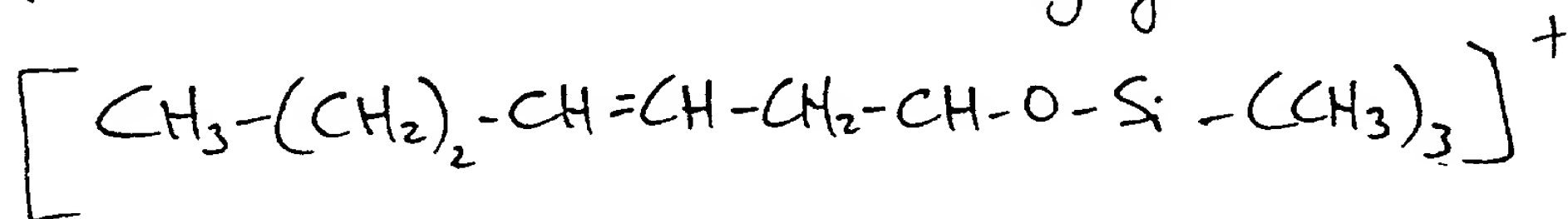
Ion #2: Mass 299



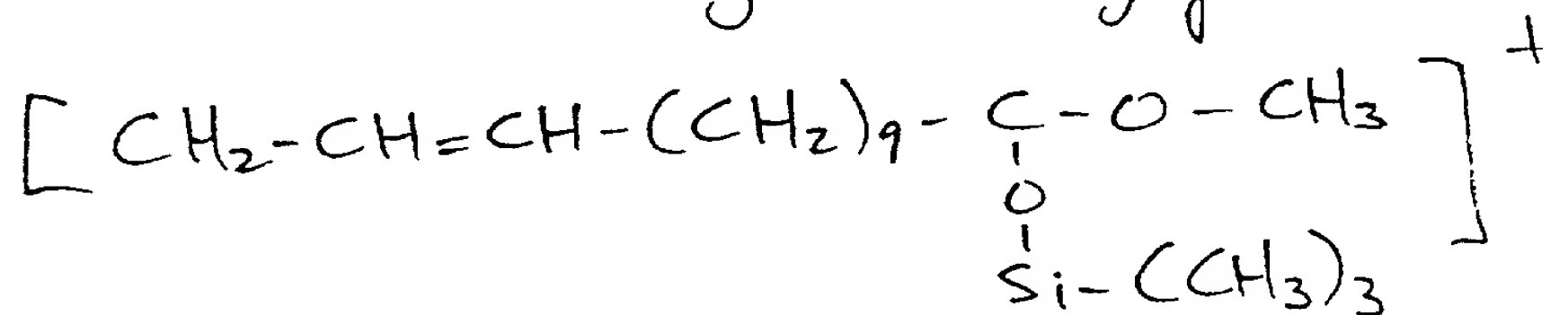
Ion #3: Mass 270 (characteristic rearrangement ion)



Ion #4: Mass 185 (desaturated analog of Ion #1)



Ion #5: Mass 298 (elongated analog of Ion #3)



Ion #6: Mass 327 (elongated analog of Ion #2)

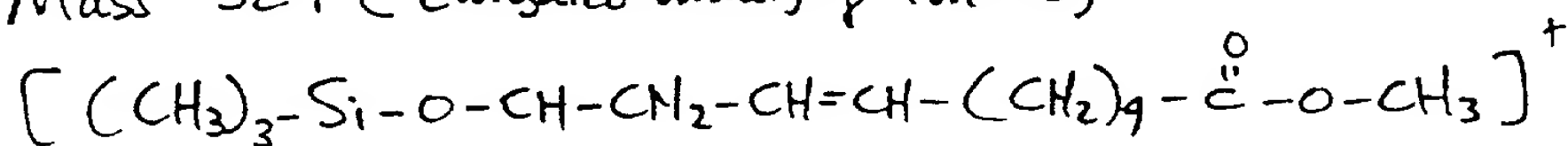


Figure 2.

FOI 2007-00000000

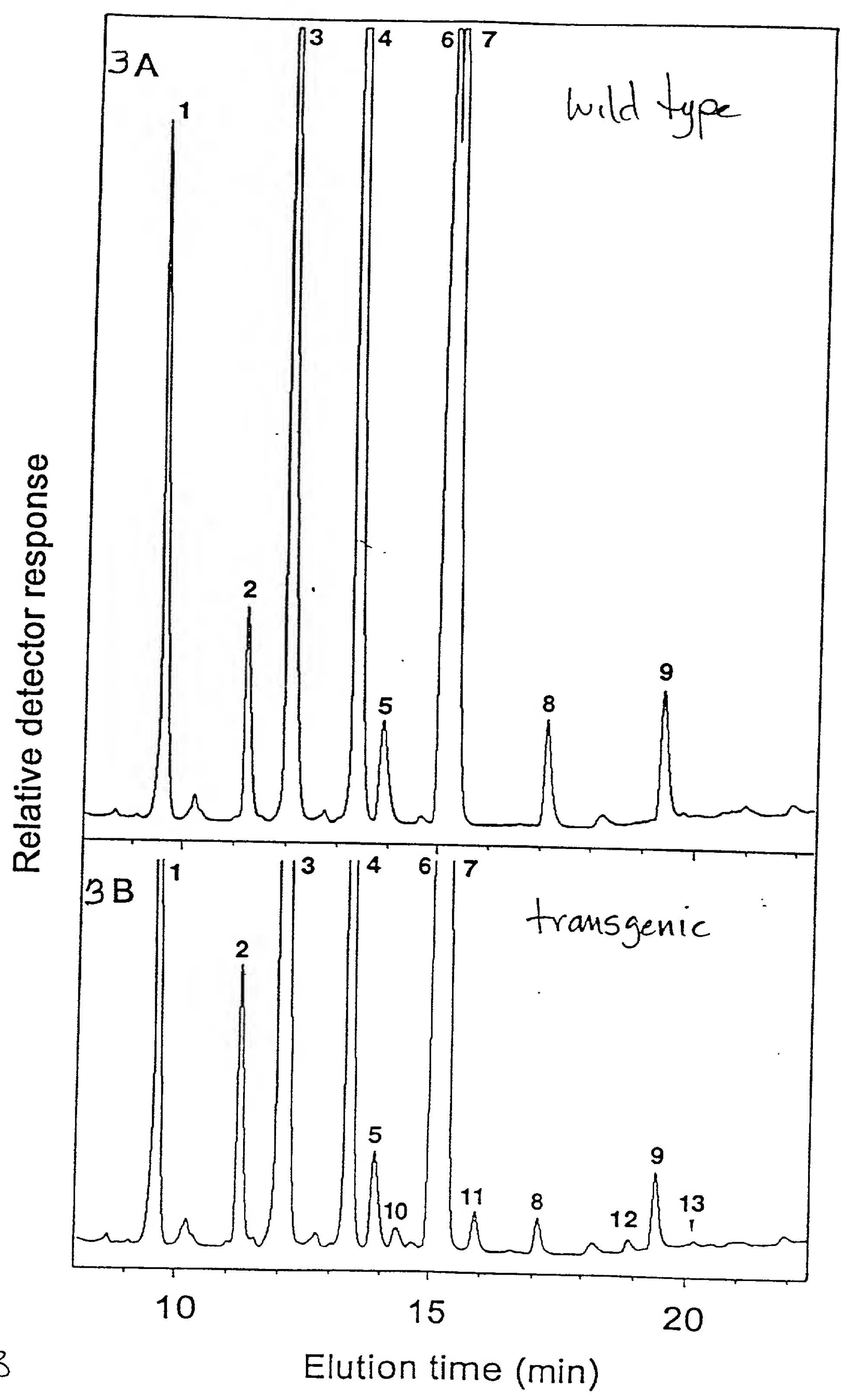
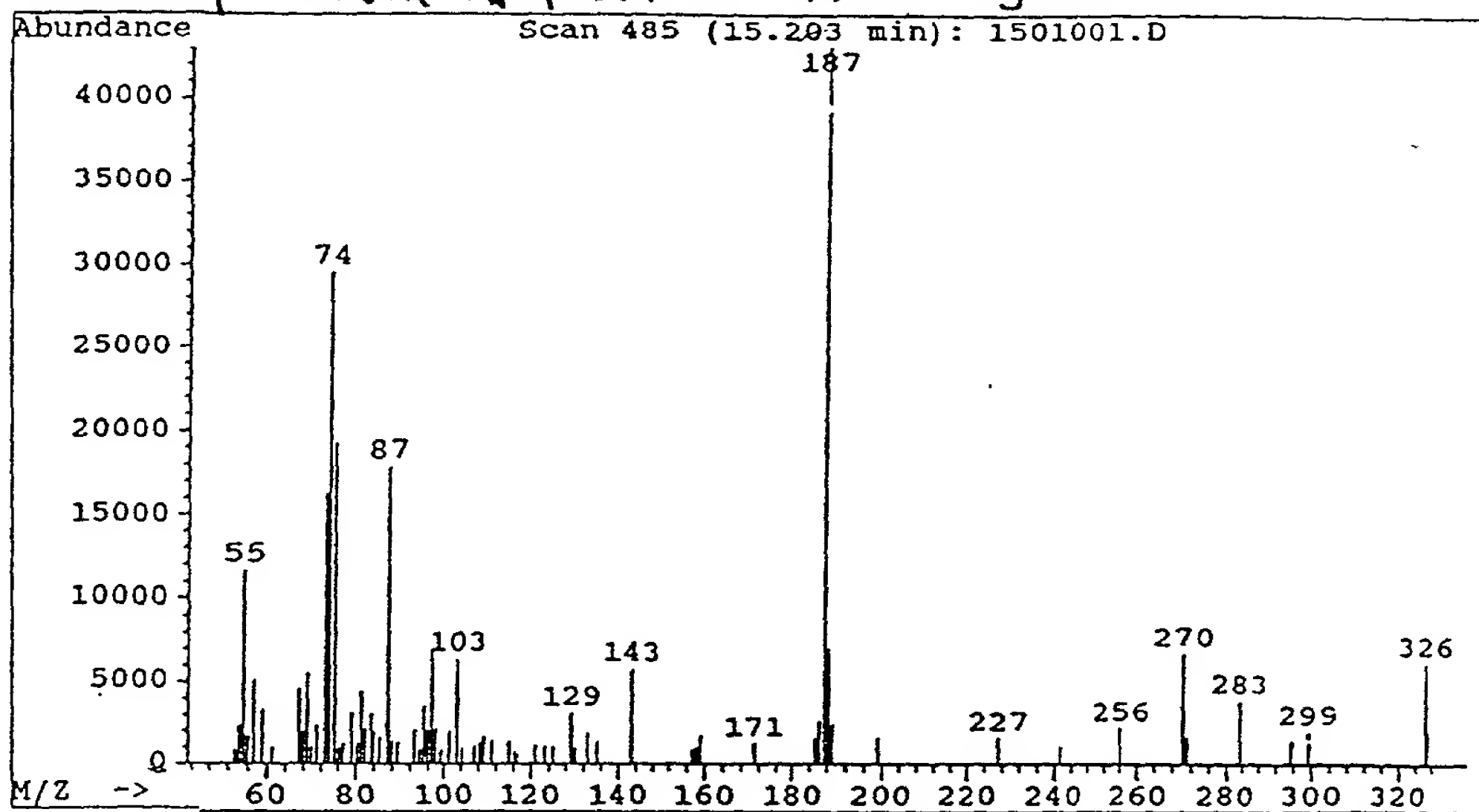


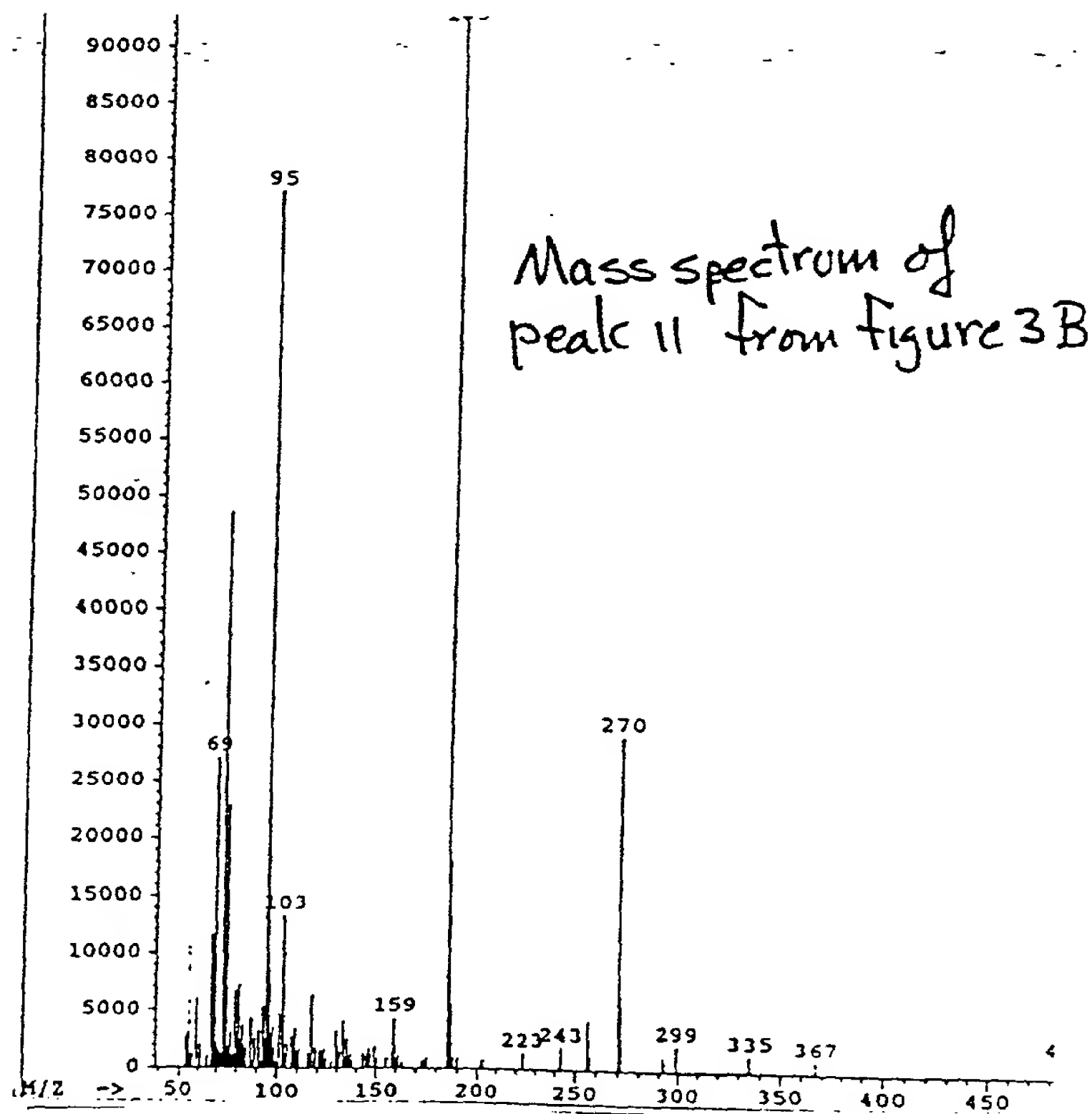
Figure 3

Figure  
4A

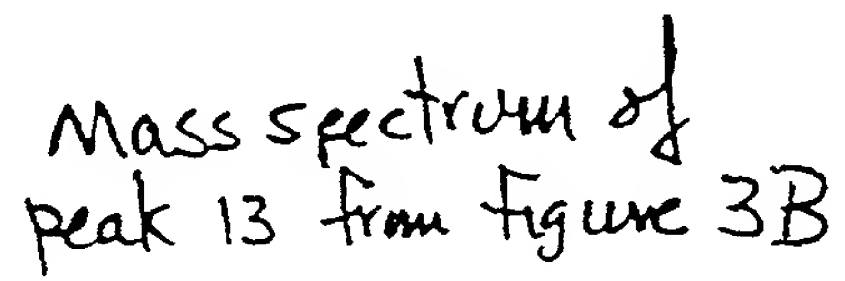
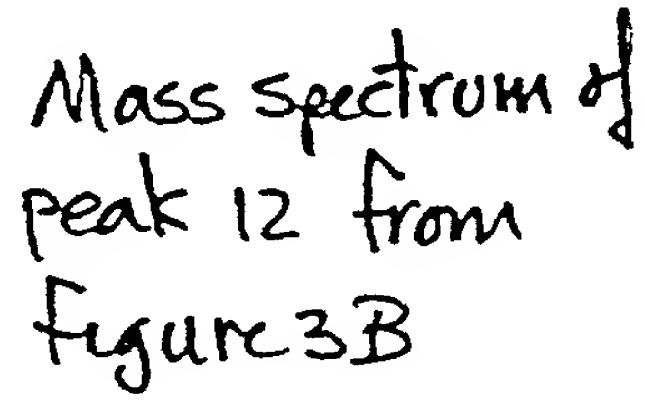
Mass Spectrum of peak 10 from Figure 3B



4B



1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217	
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10	20	30	40	50	60
TATTGGCACC	GGCGGCACCA	TTCCAACAAT	GGATCCCTAG	AAAAAGATGA	AGTCTTTGTC
70	80	90	100	110	120
CCACCTAAGA	AAGCTGCAGT	CANATGGTAT	GTCAAATACC	TCAACAACCC	TCTTGGACGC
130	140	150	160	170	180
ATTCTGGTGT	TAACAGTTCA	GTTTATCCTC	GGGTGGCCTT	TGTATCTAGC	CTTTAATGTA
190	200	210	220	230	240
TCAGGTAGAC	CTTATGATGG	TTTCGCTTCA	CATTTCTTCC	CTCATGCACC	TATCTTTAAG
250	260	270	280	290	300
GACCGTGAAC	GTCTCCAGAT	ATACATCTCA	GATGCTGGTA	TTCTAGCTGT	CTGTTATGGT
310	320	330	340	350	360
CTTTACCGTT	ACGCTGCTTC	ACAAGGATTG	ACTGCTATGA	TCTGCGTCTA	CGGAGTACCG
370	380	390	400	410	420
CTTTTGATAG	TGAACTTTTT	CCTTGTCTTG	GTCACTTTCT	TGCAGCACAC	TCATCCTTCA
430	440	450	460	470	480
TTACCTCACT	ATGATTCAAC	CGAGTGGGAA	TGGATTAGAG	GAGCTTTGGT	TACGGTAGAC
490	500	510	520	530	540
AGAGACTATG	GAATCTTGAA	CAAGGTGTTT	CACAACATAA	CAGACACCCA	CGTAGCACAC
550					
CAC					

Figure 5 Nucleotide sequence of pLesq2

10	20	30	40	50	60
TATAGGCACC	GGAGGCACCA	TTCCAACACA	GGATCCCTCG	AAAGAGATGA	AGTATTTGTC
70	80	90	100	110	120
CCAAAGCAGA	AATCCGCAAT	CAAGTGGTAC	GGCGAATACC	TCAACAACCC	TCCTGGTCGC
130	140	150	160	170	180
ATCATGATGT	TAAGTGTCCA	GTTCGTCCTC	GGATGGCCCT	TGTACTTAGC	CTTCAACGTT
190	200	210	220	230	240
TCTGGCAGAC	CCTACAATGG	TTTCGCTTCC	CATTTCTTCC	CCAATGCTCC	TATCTACAAC
250	260	270	280	290	300
GACCGTGAAC	GCCTCCAGAT	TTACATCTCT	GATGCTGGTA	TTCTAGCCGT	CTGTTATGGT
310	320	330	340	350	360
CTTTACCGTT	ACGCTGTTGC	ACAAGGACTA	GCCTCAATGA	TCTGTCTAAA	CGGAGTTCCG
370	380	390	400	410	420
CTTCTGATAG	TTAACTTTTT	CCTCGTCTTG	ATCACTTACT	TACAACACAC	TCACCCTGCG
430	440	450	460	470	480
TTGCCTCACT	ATGATTCATC	AGAGTGGGAT	TGGCTTAGAG	GAGCTTTAGC	TACTGTAGAC
490	500	510	520	530	540
AGAGACTATG	GAATCTTGAA	CAAGGTGTTC	CATAACATCA	CAGACACCCA	CGTCGCACAC
550					
CACT					

Figure 6 Nucleotide sequence of pLesq3



**S L**

S L

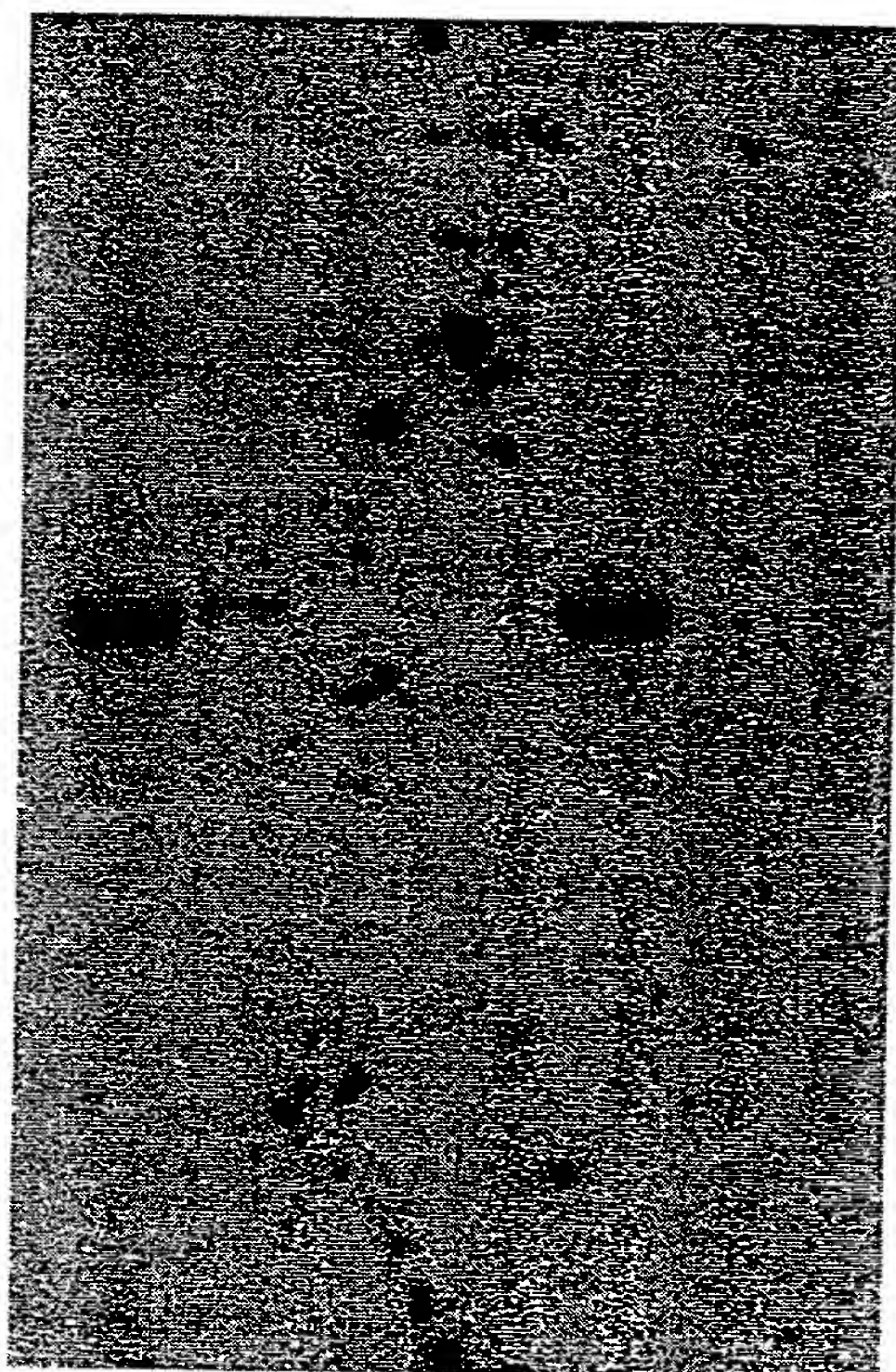


Figure 7



Phe	Ile	Leu	Gly	Trp	Pro	Leu	Tyr	Leu	Ala	Phe	Asn	Val	Ser	Gly	Arg	202
TTT	ATC	CTC	GGG	TGG	CCT	TTG	TAT	CTA	GCC	TTT	AAT	GTA	TCA	GGT	AGA	1007
Pro	Tyr	Asp	Gly	Phe	Ala	Ser	His	Phe	Phe	Pro	His	Ala	Pro	Ile	Phe	218
CCT	TAT	GAT	GGT	TTC	GCT	TCA	CAT	TTC	TTC	CCT	CAT	GCA	CCT	ATC	TTT	1055
Lys	Asp	Arg	Glu	Arg	Leu	Gln	Ile	Tyr	Ile	Ser	Asp	Ala	Gly	Ile	Leu	234
AAA	GAC	CGA	GAA	CGC	CTC	CAG	ATA	TAC	ATC	TCA	GAT	GCT	GGT	ATT	CTA	1103
Ala	Val	Cys	Tyr	Gly	Leu	Tyr	Arg	Tyr	Ala	Ala	Ser	Gln	Gly	Leu	Thr	250
GCT	GTC	TGT	TAT	GGT	CTT	TAC	CGT	TAC	GCT	GCT	TCA	CAA	GGA	TTG	ACT	1151
Ala	Met	Ile	Cys	Val	Tyr	Gly	Val	Pro	Leu	Leu	Ile	Val	Asn	Phe	Phe	266
GCT	ATG	ATC	TGC	GTC	TAT	GGA	GTA	CCG	CTT	TTG	ATA	GTG	AAC	TTT	TTC	1199
Leu	Val	Leu	Val	Thr	Phe	Leu	Gln	His	Thr	His	Pro	Ser	Leu	Pro	His	282
CTT	GTC	TTG	GTA	ACT	TTC	TTG	CAG	CAC	ACT	CAT	CCT	TCG	TTA	CCT	CAT	1247
Tyr	Asp	Ser	Thr	Glu	Trp	Glu	Trp	Ile	Arg	Gly	Ala	Leu	Val	Thr	Val	298
TAT	GAT	TCA	ACC	GAG	TGG	GAA	TGG	ATT	AGA	GGA	GCT	TTG	GTT	ACG	GTA	1295
Asp	Arg	Asp	Tyr	Gly	Ile	Leu	Asn	Lys	Val	Phe	His	Asn	Ile	Thr	Asp	314
GAC	AGA	GAC	TAT	GGA	ATA	TTG	AAC	AAG	GTG	TTC	CAT	AAC	ATA	ACA	GAC	1343
Thr	His	Val	Ala	His	His	Leu	Phe	Ala	Thr	Ile	Pro	His	Tyr	Asn	Ala	330
ACA	CAT	GTG	GCT	CAT	CAT	CTC	TTT	GCA	ACT	ATA	CCG	CAT	TAT	AAC	GCA	1391
Met	Glu	Ala	Thr	Glu	Ala	Ile	Lys	Pro	Ile	Leu	Gly	Asp	Tyr	Tyr	His	346
ATG	GAA	GCT	ACA	GAG	GCG	ATA	AAG	CCA	ATA	CTT	GGT	GAT	TAC	TAC	CAC	1439
Phe	Asp	Gly	Thr	Pro	Trp	Tyr	Val	Ala	Met	Tyr	Arg	Glu	Ala	Lys	Glu	362
TTC	GAT	GGA	ACA	CCG	TGG	TAT	GTG	GCC	ATG	TAT	AGG	GAA	GCA	AAG	GAG	1487
Cys	Leu	Tyr	Val	Glu	Pro	Asp	Thr	Glu	Arg	Gly	Lys	Lys	Gly	Val	Tyr	378
TGT	CTC	TAT	GTA	GAA	CCG	GAT	ACG	GAA	CGT	GGG	AAG	AAA	GGT	GTC	TAC	1535
Tyr	Tyr	Asn	Asn	Lys	Leu											384
TAT	TAC	AAC	AAT	AAG	TTA	TGA	GGC	TGA	TAG	GGC	GAG	AGA	AGT	GCA	ATT	1583
ATC	AAT	CTT	CAT	TTC	CAT	GTT	TTA	GGT	GTC	TTG	TTT	AAG	AAG	CTA	TGC	1631
TTT	GTT	TCA	ATA	ATC	TCA	GAG	TCC	ATN	TAG	TTG	TGT	TCT	GGT	GCA	TTT	1679
TGC	CTA	GTT	ATG	TGG	TGT	CGG	AAG	TTA	GTG	TTC	AAA	CTG	CTT	CCT	GCT	1727
GTG	CTG	CCC	AGT	GAA	GAA	CAA	GTT	TAC	GTG	TTT	AAA	ATA	CTC	GGA	ACG	1775
AAT	TGA	CCA	CAA	NAT	ATC	CAA	AAC	CGG	CTA	TCC	GAA	TTC	CAT	ATC	CGA	1823
AAA	CCG	GAT	ATC	CAA	ATT	TCC	AGA	GTA	CTT	AG						1855

Figure 8B

	10	20	30	40	50		
LFFAH12.AMI	1	MGAGGRIM-- --VTPSSKKS	--ETEALKRG	PCEKPPFTVK	DLKKAIPQHC	50	
FAH12.AMI	1	MGGGGRMSTV	ITSNNSEKKG	--GSSHLKRA	PHTKPPFTLG	DLKRAIPPHC	50
ATFAD2.AMI	1	MGAGGRMP-- --VPTSSKKS	--ETDITKRV	PCEKPPFSVG	DLKKAIPPHC	50	
BNFAD2.AMI	1	MGAGGRMQ-- --VSPPSKKS	--ETDNIKRV	PCETPPFTVG	ELKKAIPPHC	50	
GMFAD2-1.AMI	1	MGLA-KETTM	GGRGRVAKVE	VQGKKPLSRV	PNTKPPFTVG	QLKKAIPPHC	50
GMFAD2-2.AMI	1	MGAGGR----	TDVPPANRKS	--EVDPLKRV	PFEKPQFSL	QIKKAIPPHC	50
ZMFAD2.AMI	1	MGAGGRMTEK	EREKQEQLAR	ATGGAAMQRS	PVEKPPFTLG	QIKKAIPPHC	50
RCFAD2.AMI	1	-----	-----	-----	-----	50	
	60	70	80	90	100		
LFFAH12.AMI	51	FKRSIPRSFS	YLLTDITLVS	CFYYVATNYF	SLLPQPLSTY	LAWPLYWVCQ	100
FAH12.AMI	51	FERSFVRSFS	YVAYDVCLSF	LFYSIATNFF	PYISSPLS-Y	VAWLVIWLFQ	100
ATFAD2.AMI	51	FKRSIPRSFS	YLISDIIIAS	CFYYVATNYF	SLLPQPLS-Y	LAWPLYWACQ	100
BNFAD2.AMI	51	FKRSIPRSFS	HLIWDIIIAS	CFYYVATTYF	PLLPNPLS-Y	FAWPLYWACQ	100
GMFAD2-1.AMI	51	FQSRLLTSFS	YVVYDLSEAF	IFY-IATTYF	HLLPQPFS-L	IAWPIYWVLQ	100
GMFAD2-2.AMI	51	FQSVLRSFS	YVVYDLTIAF	CLYYVATHYF	HLLPGPLS-F	RGMAIYWAVQ	100
ZMFAD2.AMI	51	FERSVLKSFS	YVVHDLVIAA	ALLYFALAI	PALPSPLR-Y	AAWPLYWIAQ	100
RCFAD2.AMI	51	-----	-----	-----	-----	100	
	110	120	130	140	150		
LFFAH12.AMI	101	GCVLTGIWVI	GHECGHHAFS	DYQWVDDTVG	FIFHSFLLVP	YFSWKYSHRR	150
FAH12.AMI	101	GCILTGLWVI	GHECGHHAFS	EYQLADDIVG	LIVHSALLVP	YFSWKYSHRR	150
ATFAD2.AMI	101	GCVLTGIWVI	AHECGHHAFS	DYQWLDDTVG	LIFHSFLLVP	YFSWKYSHRR	150
BNFAD2.AMI	101	GCVLTGVWVI	AHECGHAAFS	DYQWLDDTVG	LIFHSFLLVP	YFSWKYSHRR	150
GMFAD2-1.AMI	101	GCLLTGVWVI	AHECGHHAFS	KYQWVDDVVG	LTLSHSTLLVP	YFSWKISHRR	150
GMFAD2-2.AMI	101	GCILTGVWVI	AHECGHHAFS	DYQLLDDIVG	LILHSALLVP	YFSWKYSHRR	150
ZMFAD2.AMI	101	G-----	-----AFS	DYSLDDDVVG	LVLHSSLMVP	YFSWKYSHRR	150
RCFAD2.AMI	101	-----WVM	AHDCGHHAFS	DYQLLDDVVG	LILHSCLLVP	YFSWKHSHRR	150
	160	170	180	190	200		
LFFAH12.AMI	151	HHSNIGSLEK	DEVFVPPKKA	AVKWYVKYL-	NNPLGRILVL	TVQFILGWPL	200
FAH12.AMI	151	HHSNIGSLER	DEVFVPKSKS	KISWYSKYS-	NNPPGRVLT	AATLLLGWPL	200
ATFAD2.AMI	151	HHSNIGSLER	DEVFVPKQKS	AIKWYGKYL-	NNPLGRIMML	TVQFVLGWPL	200
BNFAD2.AMI	151	HHSNIGSLER	DEVFVPR-RS	QTSSGTAST-	STTFGRVMT	TVQFTLGWPL	200
GMFAD2-1.AMI	151	HHSNIGSLDR	DEVFVPKPKS	KVAFWSKYL-	NNPLGRAVSL	LVTLTIGWPM	200
GMFAD2-2.AMI	151	HHSNIGSLER	DEVFVPKQKS	CIKWYSKYL-	NNPPGRVLT	AVTLTLGWPL	200
ZMFAD2.AMI	151	HHSNIGSLER	DEVFVPKKKE	ALPWYTPYVY	NNPVGRVHI	VVQLTLGWPL	200
RCFAD2.AMI	151	HHSNIGSLER	DEVFVPKKKS	SIRWYSKYL-	NNPPGRIMTI	AVTSLGWPL	200
	210	220	230	240	250		
LFFAH12.AMI	201	YLAFNVSGRP	YDG-FASHFF	PHAPIFKDRE	RLQIYISDAG	ILAVCYGLYR	250
FAH12.AMI	201	YLAFNVSGRP	YDR-FACHYD	PYGPIESERE	RLQIYIADLG	IFATTFVLYQ	250
ATFAD2.AMI	201	YLAFNVSGRP	YDG-FACHFF	PNAPIYNDRE	RLQIYLSDAG	ILAVCFGLYR	250
BNFAD2.AMI	201	YLAFNVSGRP	YDGGFACHFH	PNAPIYNDRE	RLQIYISDAG	ILAVCYGLLP	250
GMFAD2-1.AMI	201	YLAFNVSGRP	YDS-FASHYH	PYAPIYSNRE	RLLIYVSDVA	LFSVTYSLYR	250
GMFAD2-2.AMI	201	YLALNVSGRP	YDR-FACHYD	PYGPIYSNRE	RLQIYISDAG	VLAVVYGLFR	250
ZMFAD2.AMI	201	YLATNASGRP	YPR-FACHFD	PYGPIYNDRE	RAQIFVSDAG	VVAVAFGLYK	250
RCFAD2.AMI	201	YLAFNVSGRP	YDR-FACHYD	PYGPIYNDRE	RIEIFISDAG	VLAVTFGLYQ	250
	260	270	280	290	300		
LFFAH12.AMI	251	YAASQGLTAM	ICVYGVPLLI	VNFFLVLTFT	LQHTHPSLPH	YDSTEWEWIR	300
FAH12.AMI	251	ATMAKGLAWV	MRIYGVPLLI	VNCFVLMITY	LQHTHPAIPR	YGSSEWDWLR	300
ATFAD2.AMI	251	YAAAQGMASM	ICLYGVPLLI	VNAFLVLITY	LQHTHPSLPH	YDSSEWDWLR	300
BNFAD2.AMI	251	YAAVQGVASM	VCFLRVPLLI	VNGFLVLITY	LQHTHPSLPH	YDSSEWDWLR	300
GMFAD2-1.AMI	251	VATLKGLVWL	LCVYGVPLLI	VNGFLVTITY	LQHTHFALPH	YDSSEWDWLK	300
GMFAD2-2.AMI	251	LAMAKGLAWV	VCVYGVPLLV	VNGFLVLITF	LQHTHPALPH	YTSSEWDWLR	300
ZMFAD2.AMI	251	LAAAFGVWVW	VRVYAVPLLI	VNAWLVLITY	LQHTHPSLPH	YDSSEWDWLR	300

Figure 9A

RCFAD2.AMI	251	LAI	AKGLAWV	VCVYGVPLLV	VNSFLVLITF	LQHTHPALPH	YDSSEWDWLR	300
		310		320	330	340	350	
LFFAH12.AMI	301	GAL	VTVDRDY	GILNKVFHNI	TDTHVAHHLF	ATIPHYNAME	ATEAIKPILG	350
FAH12.AMI	301	GAM	VTVDRDY	GVLNKVFHNI	ADTHVAHHLF	ATVPHYHAME	ATKAIKPIMG	350
AD2.AMI	301	GAL	ATVDRDY	GILNKVFHNI	TDTHVAHHLF	STMPHYNAME	ATKAIKPILG	350
BNFAD2.AMI	301	GAL	ATVDRDY	GILNQGFHNI	TDTHEAHHLF	STMPHYHAME	ATKAIKPILG	350
GMFAD2-1.AMI	301	GAL	ATMDRDY	GILNKVFHHI	TDTHVAHHLF	STMPHYHAME	ATNAIKPILG	350
GMFAD2-2.AMI	301	GAL	ATVDRDY	GILNKVFHNI	TDTHVAHHLF	STMPHYHAME	ATKAIKPILG	350
ZMFAD2.AMI	301	GAL	ATMDRDY	GILNRVFHNI	TDTHVAHHLF	STMPHYHAME	ATKAIRPILG	350
RCFAD2.AMI	301	GAL	ATVDRDY	GILNKVFHNI	TDTQVAHHLF	-TMP-----	-----	350
		360		370	380	390	400	
LFFAH12.AMI	351	DYY	HFDGTPW	YVAMYREAKE	CLYVEPDTER	GKKGVIYYNN	K-L.....	400
FAH12.AMI	351	EYY	RYDGTFF	YKALWREAKE	CLFVEPDEGA	PTQGVFWYRN	KY-.....	400
ATFAD2.AMI	351	DYY	QFDGTPW	YVAMYREAKE	CIYVEPDREG	DKKGVWYNN	K-L.....	400
BNFAD2.AMI	351	EYY	QFDGTPV	VKAMWREAKE	CIYVEPDROG	EKKGVFWYNN	KL*.....	400
GMFAD2-1.AMI	351	EYY	QFDDTPF	YKALWREARE	CLYVEPDEGT	SEKGVWYRN	KY-.....	400
GMFAD2-2.AMI	351	EYY	RFDETPF	VKAMWREARE	CIYVEPDQST	ESKGVFWYNN	KL-.....	400
ZMFAD2.AMI	351	DYY	HFDPTPV	AKATWREAGE	CIYVEPE---	DRKGVFWYNK	KF*.....	400
RCFAD2.AMI	351	-----	-----	-----	-----	-----	-----	400
		410		420	430	440	450	
LFFAH12.AMI	401	.....	.....	.....	.....	.....	.....	450
FAH12.AMI	401	.....	.....	.....	.....	.....	.....	450
ATFAD2.AMI	401	.....	.....	.....	.....	.....	.....	450
BNFAD2.AMI	401	.....	.....	.....	.....	.....	.....	450
GMFAD2-1.AMI	401	.....	.....	.....	.....	.....	.....	450
GMFAD2-2.AMI	401	.....	.....	.....	.....	.....	.....	450
ZMFAD2.AMI	401	.....	.....	.....	.....	.....	.....	450

Figure 9B



0905198-062404

Molecular weight markers



E H X

3.6 -

1.8 -

1.5 -

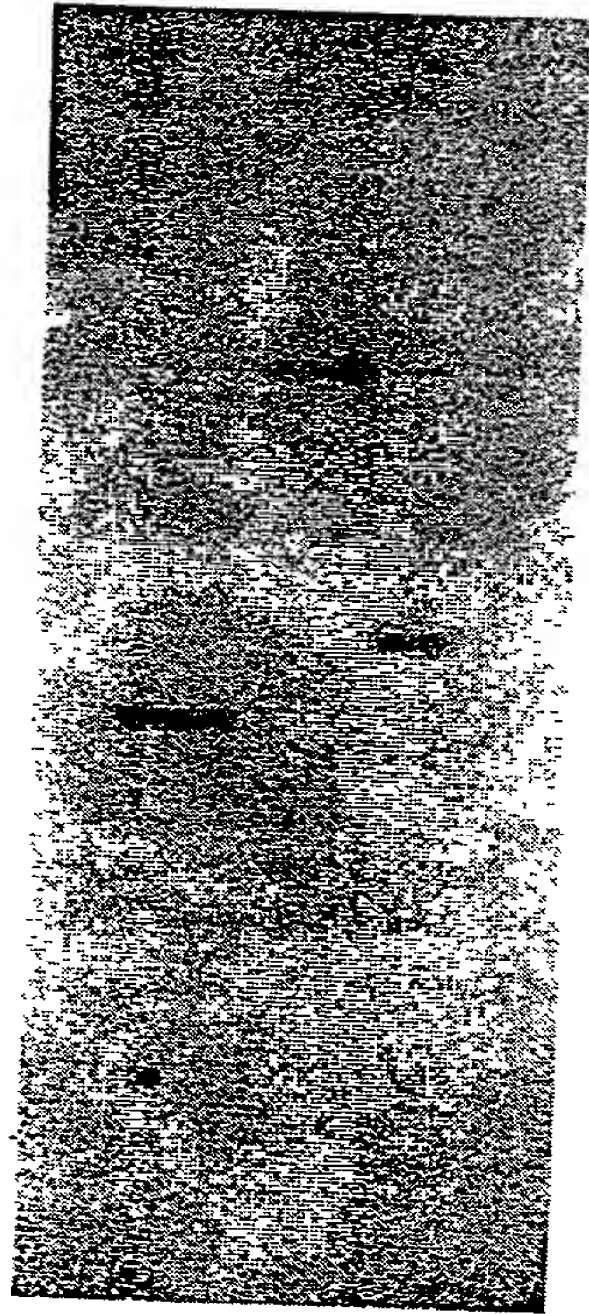


Figure 10

000000-000000

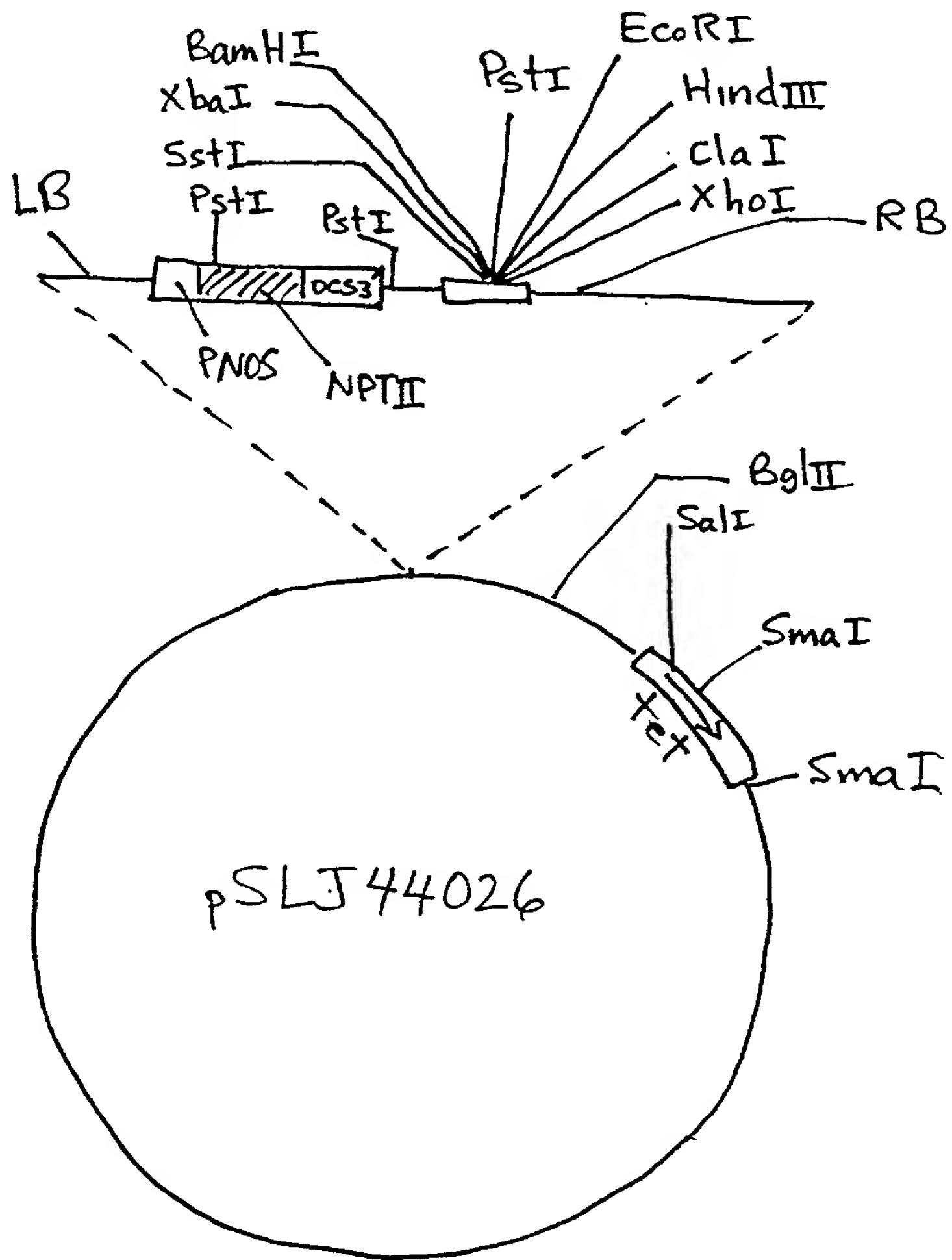


Figure 11